

Montana Cooperative Agreement Project

Potato Wart Proposal

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1. State:	MT	Fiscal Year:	Jan. 1, 2006-Dec. 31, 2006
2. Cooperators Name:	Montana Department of Agriculture		
3. Federal Tax Identification Number:	81-0302402		
4. New CA or Continuation if applicable previous number:	New		
5. Cooperators contact information:			
6. Address:	Agricultural Sciences Division PO Box 200201 Helena, MT 59620-201		
7. Phone:	(406) 444-3730		
8. Name of Project:	Potato Wart Survey		
9. Project Coordinator:	Kimberly Merenz		
10. Target Pest(s), from which Pest Lists:	Potato Wart (<i>Synchytrium endobioticum</i>) (National Plant Pest List) (Western Region Pest List) (Select Agent List) (State Pest List)		
11. Objective:	It has been shown that potato wart is likely to survive in the rocky mountain states, and become persistent in irrigated fields. Most of the potato production in Montana occurs in irrigated fields. An infestation of potato wart would cause severe losses in the industry. Our objective is to assure our trading partners that we certainly do not have potato wart in Montana.		
12. Geographic scope of project.	Potato growing counties of Montana, including Gallatin, Flathead, Lake and Madison counties.		
13. Economic importance to State:	The ten year average for production of potatoes in Montana is close to \$25 million. Montana producers provide certified seed potatoes to growers throughout the US, and table stock potatoes to Mexico. Our exports to Mexico in 2005 have more than doubled from the previous year, and we expect that market to continue to increase. The detection of potato wart in our potato industry, or the lack of confirmation that it does not occur will have a devastating effect on our potato markets. Early detection of exotic species and detection of the spread will alert states to new pathways. Knowledge gained on distribution can be used to rapidly implement eradication or management strategies. Negative survey data will also aid in our ability to export locally grown crops. Results will also		

	update and strengthen existing data in NAPIS.
14. Materials and Methods:	Soil samples will be collected at the rate of one sample per plot, composed of 60 subsamples, in the amount of 200 grams per sample. Diagnostic screening will be conducted by a USDA APHIS PPQ approved laboratory, using direct examination of the soil samples. Any suspect positive samples will be confirmed by a USDA APHIS PPQ specialist. Analysis will be performed as described in <i>Determination of Methods for Synchytrium endobioticum (Scilb.) Perc.</i> , Annex 1, On the Order of Phytosanitary Control and Application of Phytosanitary Measures of Potato Wart Disease. Dried soil samples are suspended in tap water for 24 hours. The suspension is wet sieved through an electromagnetic sieve shaker. The fractions are collected, washed onto filter paper, transferred to centrifuge tubes, chemically saturated, and centrifuged. The supernatant is filtered, washed, and the residue is microscopically examined for sporangia.

15. Delivery Dates:	All survey data from each survey Cooperative Agreement will be entered into the NAPIS database. This data entry component is a function of the CORE Project funded through Pest Detection. <ul style="list-style-type: none"> a. First record for the State and/or County will be entered within 48 hours of confirmation of identification by a qualified identifier. b. All other required records, both positive and negative, must be entered within two weeks of confirmation. c. All records are to be entered into the NAPIS database by December 1 of the year of survey, so these data are included in the yearly WR Statistical Report.
16a. SPHD Priority: 16b. SPRO or SCC Priority:	# 2

17. Comments:	
18a. Diagnostics (i.e., screening down to the few potential targets)	1) Will all diagnostics screening be done within the State, and this work is specified in the proposal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, who is person or institution who will screen specimens for potential targets? Montana State University, member GPDN

18b. Diagnostics screening done by ☒ State or by ☐ PPQ (check one).

2) List of target pests by scientific names	3) Dates of survey	4) Number of survey sites	5) Number of traps, visual surveys, etc.	6) Number of collections (e.g., times that traps are visited)
<i>Synchytrium endobioticum</i>	May 2006 to Sept 2006	150	150	150 total samples

19. Budget

DETAILED FINANCIAL PLAN						
POTATO WART SURVEY						
MONTANA DEPARTMENT OF AGRICULTURE						
NEW Cooperative Agreement						
1/1/06 –12/31/06						
(Financial plan much match the SF-424A, Section B, Budget Categories--ROUNDED to nearest dollar)						
ITEM				APHIS FUNDS (provided by agreement)	STATE FUNDS	TOTAL
Management – 20 hrs. @ \$27.26/hr					545	545
Admin. Support – 20 hrs. @ \$16.73/hr					335	335
Ag. Specialists – 160 hrs. total @ \$18.18/hr					2,909	2,909
Temp. Technician – 75 hrs. @ \$11.28/hr				846		846
		Subtotal		846	3,789	4,635
FRINGE BENEFITS:						
30% of salary of permanent employees				254	1,137	1,391
		Subtotal		254	1,137	1,391
TRAVEL:						
Student Intern – 3,000 mi. total @ \$0.11/mi.				330		330
Lodging – 8 nights @ \$60/night				480		480
Per Diem – 10 days @ \$23/day				230		230
		Subtotal		1,040	0	1,040
EQUIPMENT:						
1 Electromagnetic Sieve Shaker @\$2,000				2,000		2,000
6 sieves @ \$150 each				900		900
		Subtotal		2,900	0	2,900
SUPPLIES:						
Sampling supplies, misc. office supplies and postage				300		300
		Subtotal		300	0	300
CONTRACTUAL:						
Diagnostics – 100 samples @ \$60/sample				6,000		6,000
Student Intern – 160 hrs. @ \$9.50/hr				1,520		1,520
Truck Rental – 416 hrs. @ \$1.243/hr				517		517
		Subtotal		8,037		8,037
Comm., Rent, Repair & Maint., Education, Training, FedEx				410		410
		Subtotal		410	0	410
TOTAL DIRECT COSTS:				13,787	4,926	18,713
INDIRECT COSTS: (35.28% On Personal Services Only)				388	1,738	2,126
TOTAL:				14,175	6,664	20,839
Agreement only--cost share information						